

# Andrew J Pollard

## List of Publications by Citations

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36  
papers

1,531  
citations

18  
h-index

38  
g-index

38  
ext. papers

1,884  
ext. citations

8.4  
avg, IF

4.7  
L-index

#	Paper	IF	Citations
36	Effect of disorder on Raman scattering of single-layer MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	380
35	Multifunctional nanoprobes for nanoscale chemical imaging and localized chemical delivery at surfaces and interfaces. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9638-42	16.4	218
34	Nucleation control for large, single crystalline domains of monolayer hexagonal boron nitride via Si-doped Fe catalysts. <i>Nano Letters</i> , <b>2015</b> , 15, 1867-75	11.5	121
33	Understanding and Controlling Cu-Catalyzed Graphene Nucleation: The Role of Impurities, Roughness, and Oxygen Scavenging. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8905-8915	9.6	109
32	Supramolecular assemblies formed on an epitaxial graphene superstructure. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1794-9	16.4	104
31	Nanoscale chemical imaging of solid-liquid interfaces using tip-enhanced Raman spectroscopy. <i>Nanoscale</i> , <b>2018</b> , 10, 1815-1824	7.7	51
30	In Situ Graphene Growth Dynamics on Polycrystalline Catalyst Foils. <i>Nano Letters</i> , <b>2016</b> , 16, 6196-6206	11.5	51
29	Nanoscale chemical imaging using tip-enhanced Raman spectroscopy. <i>Nature Protocols</i> , <b>2019</b> , 14, 1169-1188	11.8	50
28	Quantitative characterization of defect size in graphene using Raman spectroscopy. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 253107	3.4	46
27	Antiviral surfaces and coatings and their mechanisms of action. <i>Communications Materials</i> , <b>2021</b> , 2,	6	45
26	How does graphene grow? Easy access to well-ordered graphene films. <i>Small</i> , <b>2009</b> , 5, 2291-6	11	39
25	Covalent Carbene Functionalization of Graphene: Toward Chemical Band-Gap Manipulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4870-7	9.5	36
24	High-resolution electrochemical and topographical imaging using batch-fabricated cantilever probes. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5143-9	7.8	35
23	Probing individual point defects in graphene via near-field Raman scattering. <i>Nanoscale</i> , <b>2015</b> , 7, 19413-8	7.7	32
22	Raman Fingerprints of Graphene Produced by Anodic Electrochemical Exfoliation. <i>Nano Letters</i> , <b>2020</b> , 20, 3411-3419	11.5	25
21	Structural, chemical and electrical characterisation of conductive graphene-polymer composite films. <i>Applied Surface Science</i> , <b>2017</b> , 403, 403-412	6.7	23
20	Removal of Organic Contamination from Graphene with a Controllable Mass-Selected Argon Gas Cluster Ion Beam. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 17836-17841	3.8	21

19	Determining the Level and Location of Functional Groups on Few-Layer Graphene and Their Effect on the Mechanical Properties of Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13481-13493	9.5	19
18	Unlocking thermogravimetric analysis (TGA) in the fight against fake graphene materials. <i>Carbon</i> , <b>2021</b> , 179, 505-513	10.4	17
17	The Role and Control of Residual Bulk Oxygen in the Catalytic Growth of 2D Materials. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 16257-16267	3.8	14
16	Integrated Wafer Scale Growth of Single Crystal Metal Films and High Quality Graphene. <i>ACS Nano</i> , <b>2020</b> , 14, 13593-13601	16.7	11
15	Reactive intercalation and oxidation at the buried graphene-germanium interface. <i>APL Materials</i> , <b>2019</b> , 7, 071107	5.7	10
14	Physicochemical characterisation of reduced graphene oxide for conductive thin films.. <i>RSC Advances</i> , <b>2018</b> , 8, 37540-37549	3.7	10
13	Gas physisorption measurements as a quality control tool for the properties of graphene/graphite powders. <i>Carbon</i> , <b>2020</b> , 167, 585-595	10.4	9
12	Understanding metal organic chemical vapour deposition of monolayer WS: the enhancing role of Au substrate for simple organosulfur precursors. <i>Nanoscale</i> , <b>2020</b> , 12, 22234-22244	7.7	8
11	Terminology: the first step towards international standardisation of graphene and related 2D materials. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 13685-13688	4.3	7
10	Metrology for graphene and 2D materials. <i>Measurement Science and Technology</i> , <b>2016</b> , 27, 092001	2	7
9	Oxidising and carburising catalyst conditioning for the controlled growth and transfer of large crystal monolayer hexagonal boron nitride. <i>2D Materials</i> , <b>2020</b> , 7, 024005	5.9	7
8	Nanoscale characterization of plasma functionalized graphitic flakes using tip-enhanced Raman spectroscopy. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 184708	3.9	7
7	Mechanical properties of the hollow-wall graphene gyroid lattice. <i>Acta Materialia</i> , <b>2020</b> , 201, 254-265	8.4	6
6	Using nuclear magnetic resonance proton relaxation to probe the surface chemistry of carbon 2D materials. <i>Nanoscale</i> , <b>2021</b> , 13, 6389-6393	7.7	2
5	Development of a Novel Combined Scanning Electrochemical Microscope (SECM) and Scanning Ion-Conductance Microscope (SICM) Probe for Soft Sample Imaging. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1422, 13		1
4	Metrology for Graphene and 2-D Materials <b>2015</b> ,		1
3	Gas Cluster Ion Beam Cleaning of CVD-Grown Graphene for Use in Electronic Device Fabrication. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 5187-5197	5.6	1
2	Understanding the bonding mechanisms of organic molecules deposited on graphene for biosensing applications. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 174703	3.9	0

- 1 Rapid monitoring of graphene exfoliation using NMR proton relaxation. *Nanoscale*, **2021**, 13, 14518-14524. [14524](#) ○